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2016-03-10

# Accomplished SEA Student Prepares for Yearlong TDSI Program

Chagoya, Javier

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## Today@NPS



U.S. Navy photo by Javier Chagoya

## Accomplished SEA Student Prepares for Yearlong TDSI Program

By Javier Chagoya

Lt. Ryan Beall, a student in NPS' Department of Systems Engineering, is one of three university students selected for attendance at the National University of Singapore (NUS) Temasek Defence Systems Institute (TDSI). Established in 2001, TDSI is a strategic alliance between NUS and NPS that brings together international military members and defense technologists in an education and research environment.

"I'm really grateful for the opportunity to earn a dual degree in the defense technology and systems program," said Beall. "And I'll be learning more about sensors technology and simulation with the systems engineering and analysis track at NPS.

"National University of Singapore is seen as a premier institution in a culture that identifies with meritocracy and rewards academic efforts 100 percent. It's a fantastic learning environment and a once in a lifetime chance," added Beall.

A former MH-60 pilot, Beall has spent countless hours in his off-time studying remote-control (RC) Vertical Take-off and Landing (VTOL) aircraft, building and flying his most recent design just a few weeks ago at Camp Roberts' McMillan Airfield. Beall is something of an expert in RC aircraft control algorithms, making his mark in the field as a student at the Naval Academy.

"In 2008, I wrote the [algorithm] as a Naval Academy student," Beall explained. "There was nothing like it before in such a small package. In it I could pack controllers for air speed, altitude and three-axis accelerometers, gyro magnetometers and attitude estimators with bank angle hold capability."

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## March 2016

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### March 18, 2016

Computer Science Student Earns Meaningful Grace Murray Hopper Award

### March 17, 2016

NPS Students Compete in International Simulation Competition

### March 16, 2016

Physics Department Holds Mini "Discovery Day" for Area Students

### March 15, 2016

Analysis of Recruit Retention Earns Multiple Student Awards

### March 14, 2016

NPS Celebrates Women's History

### March 11, 2016

Wargame Update, Crew Endurance Highlight Rowden's Visit to Campus

### March 10, 2016

Accomplished SEA Student Prepares for Yearlong TDSI Program

### March 9, 2016

Navy's Air Boss Addresses NPS Aviation Community

### March 8, 2016

Mechanical Engineering Students Get a First-Hand Look at Massive Propulsion

### March 7, 2016

Naval Submarine League President Outlines Today's Force

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His basic open source control algorithm has been improved upon by several others since, but continues to be used internationally in the RC world.

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